adertech

EXT-FU4DP-TR

4K60 DP over Fiber Extender



User Manual

VER 1.1

Thank you for purchasing this product

We have done everything possible to ensure that our equipment pleases our consumers. When solving any problems in the operation and connection of ADERTECH equipment, it is best to contact authorized companies and specialists who work with our equipment. Our equipment is intended for professional use, so you have professional skills in using such equipment. ADERTECH is a manufac-turer of a wide range of multimedia solutions.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

This DP extender can extend DP signal up to 10km over a single-mode fiber cable. Video resolution is up to 4K2K@50/60Hz RGB 4:4:4. The product has the advantages of strong anti-interference, high safety performance, small size and light weight, and has incomparable advantages in long-distance transmission.

2. Features

☆ Compliant with VESA Displayport 1.4a
☆ Compliant with HDCP2.2/2.3 and 1.x
☆ Support HBR3, HBR2, HBR and RBR (8.1/5.4/2.7/1.62Gbps)
☆ Video resolution is up to 4K2K@50/60Hz 4:4:4
☆ Support any VESA standard resolution transmission
☆ HDR10, HDR10+, Dolby Vision, HLG pass-through
☆ Support LPCM 7.1CH, Dolby5.1, Dolby TrueHD, Dolby Atmos and DTS-HD Master, DTS:X Audio
☆ Transmission distance is up to 10km over a single-mode fiber cable
* Multi-mode fiber is supported in SFP modules. The distance over OM4 is up to 300m
☆ EDID transmission from receiver to transmitter
☆ Compact design for easy and flexible installation

3. Package Contents

① 1× 4K60 DP over Fiber Extender (Transmitter)
② 1× 4K60 DP over Fiber Extender (Receiver)
③ 2× 5V/1A Power Supply
④ 1× User Manual

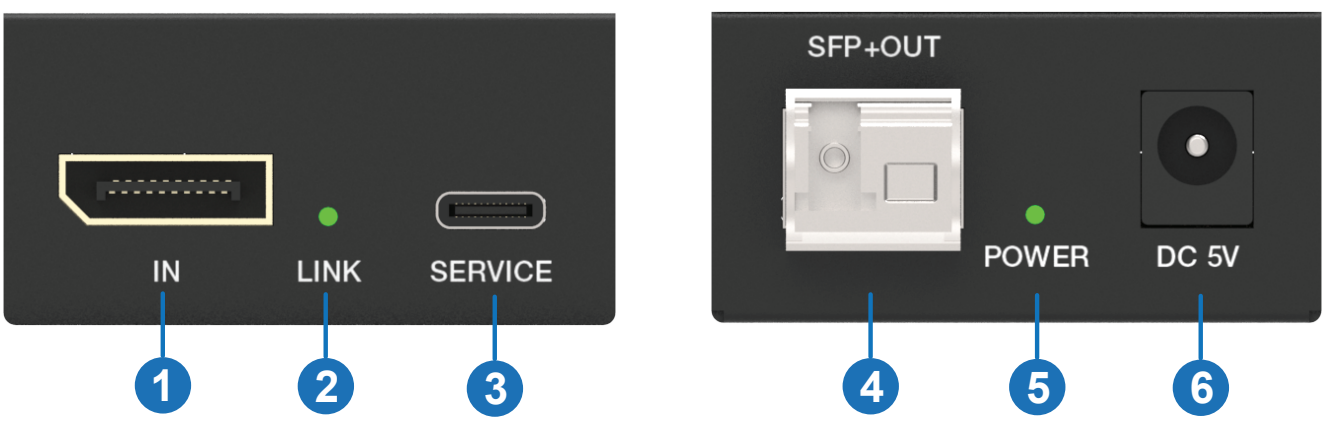
4. Specifications

Technical	
DP Compliance	DisplayPort 1.4a
HDCP Compliance	HDCP 2.3/2.2/1.x
Video Bandwidth	Up to 32.4Gbps (8.1/5.4/2.7/1.62Gbps)
Input & Output Video Resolution	4096x2160p60, 4096x2160p50, 3840x2160p60, 3840x2160p50, 3840x2160p30, 3840x2160p25, 1920x1200p60RB, 1920x1080p60, 1920x1080p50, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60 Any VESA resolution is supported.
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X
HDR	HDR10, HDR10+, Dolby Vision, HLG
Fiber Optic Module	10G SFP+ module
Transmission Distance	Up to 10km over single-mode LC fiber cable Up to 300m over multi-mode OM4 LC fiber cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1x DP IN [DisplayPort signal input port] 1x SERVICE [USB-C, update port] Output: 1x SFP+ OUT [LC female]
Receiver	Input: 1x SFP+ IN [LC female] 1x SERVICE [USB-C, update port] Output: 1x DP OUT [DisplayPort signal output port]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 81mm [W] x 49mm [D] x 25mm [H]
Weight	Transmitter: 138g, Receiver: 138g
Power Supply	Input: AC 100 - 240V 50/60Hz; Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Transmitter: 2.75W (Max), Receiver: 2.5W (Max)
Operating Temperature	32°F - 104°F / 0°C - 40°C
Storage Temperature	-4°F - 140°F / -20°C - 60°C
Operating Humidity	20% - 80% (relative humidity, non-condensing)
Storage Humidity	10% - 90% (relative humidity, non-condensing)

5. Operation Controls and Functions

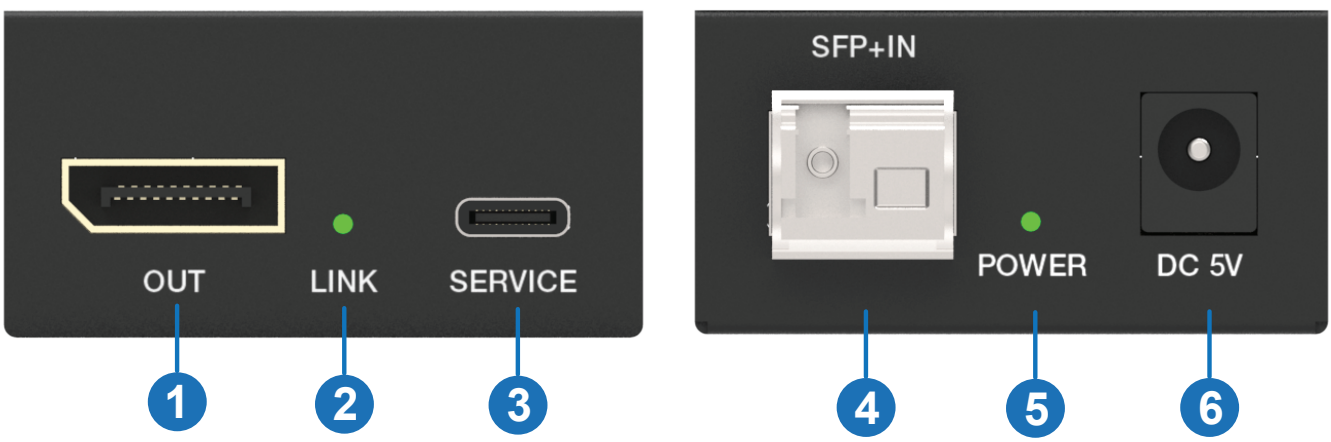
5.1 Transmitter Panel



No.	Name	Function Description
1	IN	DP signal input port, connected to source device with DP cable.
2	LINK LED	The green LED is always on when the Transmitter and Receiver have a connection with normal optical fiber signal.

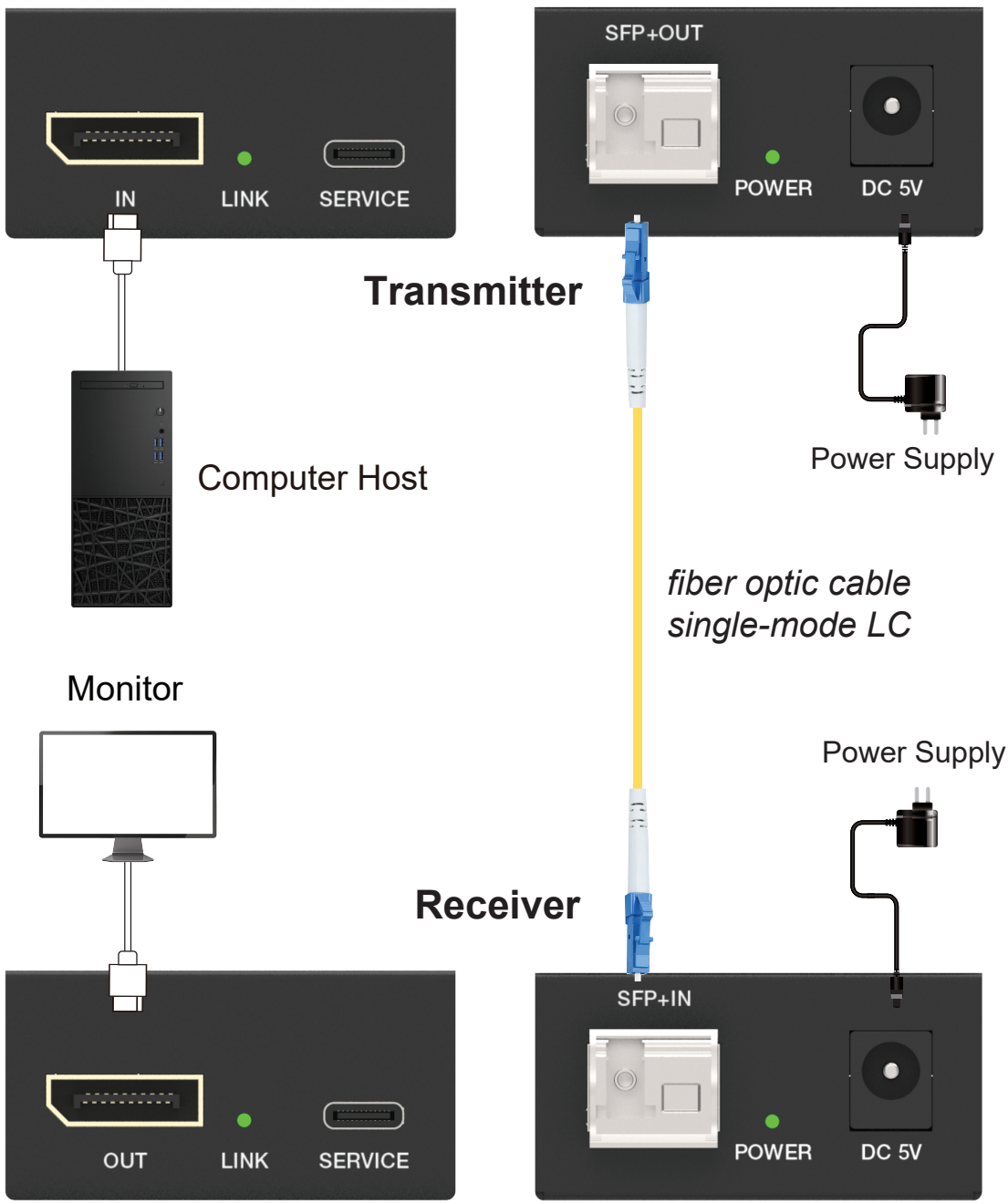
No.	Name	Function Description
3	SERVICE port	Used for firmware update.
4	SFP+OUT	Fiber optic SFP port, connected to the SFP+IN port on Receiver via LC fiber optic cable.
5	POWER LED	The green LED lights up, when the Transmitter is powered on.
6	DC 5V	DC 5V/1A power input port.

5.2 Receiver Panel



No.	Name	Function Description
1	OUT	DP signal output port, connected to a display device with DP cable.
2	LINK LED	The green LED is always on, when the Transmitter and Receiver have a connection with normal optical fiber signal.
3	SERVICE	Used for firmware update.
4	SFP+IN	Fiber optic SFP port, connected to the SFP+OUT port on Transmitter via LC fiber optic cable.
5	POWER LED	The green LED is always on, when the Receiver is powered on.
6	DC 5V	DC 5V/1A power input port.

6. Application Example



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